


# Burlington and Vergennes, again -- Pathogens in our streets and waters | 38 sewage discharges now in 52 days (5 per week avg)

Tuesday, July 19, 2016 11:03 AM

Subject	<b>Burlington and Vergennes, again -- Pathogens in our streets and waters   38 sewage discharges now in 52 days (5 per week avg)</b>
From	<a href="#">James Ehlers</a>
To	Voorhees, Jeanne; Hamjian, Lynne; Perkins, Stephen; Szaro, Deb; Spalding, Curt
Cc	ckilian@clf.org
Sent	Sunday, July 05, 2015 6:47 PM
Attachments	 removed

2015-07-01	Burlington	Pine Street near intersection with Lakeside Ave.	Lake Champlain	Discharged untreated sewage	11130
2015-07-01	Vergennes	MacDonough Drive Pump Station	Potash Brook & Otter Creek	Authorized Wet Weather CSO Overflow	75200

Rain does not cause pollution. Obsolete and inadequate infrastructure coupled with poor public policy does.

Remember, sewage is more than just phosphorous. See below.

That now brings the total to 38 sewage spills in the 11 different communities since May 10th:

Burlington 8  
Rutland 7  
Vergennes 6  
Middlebury 5  
Saint Albans 3  
Montpelier 1  
S. Burlington 1  
Northfield 1  
Shelburne 2  
Hinesburg 1  
Wilmington 1  
Ludlow 1  
Brighton 1

## **Wastewater constituents**

<b>Microorganisms</b>	Pathogenic bacteria, virus and worms
eggs	Risk when bathing and eating shellfish
<b>Biodegradable organic materials</b>	Oxygen depletion in rivers, lakes and fjords
	Fish death, odours

<b>Other organic materials</b>	Detergents, pesticides, fat, oil and grease,
	Toxic effect, aesthetic inconveniences, colouring, solvents, phenols,
cyanide	bio accumulation in the food chain

<b>Nutrients</b>	Nitrogen, phosphorus,
ammonium	Eutrophication, oxygen depletion, toxic effect

<b>Metals</b>	Hg, Pb, Cd, Cr, Cu,
Ni	Toxic effect, bioaccumulation

<b>Other inorganic materials</b>	Acids, for example hydrogen sulphide,
bases	Corrosion, toxic effect

<b>Thermal effects</b>	Hot
water	Changing living conditions for flora and fauna
fauna	

<b>Odour (and taste)</b>	Hydrogen
sulphide	Aesthetic inconveniences, toxic effect

<b>Radioactivity</b>	
	Toxic effect, accumulation

Constituents present in domestic wastewater (based on Henze et al., 2001)

All the best,

*James Ehlers*

Executive Director

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